

**STATE OPERATING PERMIT
STATIONARY SOURCE PERMIT TO OPERATE
This permit includes designated equipment subject to
New Source Performance Standards (NSPS Dc, Ka)**

This permit supersedes your permits dated September 12, 2002;
April 5, 2006; and March 16, 1979, as amended June 20, 1979.

Draft Version for Public Comment

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Ronile, Inc.
P. O. Box 1059
Rocky Mount, VA 24151-8059
Registration No.: 30478
County-Plant ID No.: 067-0029

is authorized to operate a yarn processing and manufacturing facility located at

701 Orchard Avenue, Rocky Mount, Virginia

in accordance with the Conditions of this permit.

Approved on DATE

Steven A. Dietrich, P.E.
Regional Director, Department of Environmental Quality

Permit consists of 16 pages.
Permit Conditions 1 to 58.

INTRODUCTION

This permit approval is based on the permit application dated August 14, 2007, including amendment information dated October 8, 2007 and supplemental information dated October 25, 2007. Operating parameters not covered in that application shall be as represented in the applications dated February 16, 2006, including supplemental information dated March 14, 2006; August 25, 2000; and June 14, 1995, including amendment information dated October 20, 1998, January 25, 2002, and September 5, 2002. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses () after each condition.

Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the Department of Environmental Quality (DEQ) or the State Air Pollution Control Board (Board) for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

PROCESS REQUIREMENTS

1. **Equipment List** - Equipment at this facility consists of the following:

Equipment to be operated			
Reference No.	Equipment Description	Rated Capacity	Federal Requirements
B3	Eclipse Series HT Therminol heater	18.24 MMBTU/hr	
B4	Cleaver Brooks CB packaged boiler	14.645 MMBTU/hr	
B5	Cleaver Brooks CB packaged boiler	16.737 MMBTU/hr	
B6	Carotek Therminol heater	16.00 MMBTU/hr	NSPS Dc
B7	English Boiler & Tube wood-fired boiler	17.84 MMBTU/hr	NSPS Dc
B7a	Wood handling & storage equipment for English boiler		
DL1 – DL8	Eight yarn dye lines	550 lb/hr each	
HS1 & HS2	Two heat setters	450 lb/hr each	
HS3	Superba Heat Set Machine (chemical free)	250 lb/hr	
SD	Sample dye line	100 lb/hr	
RDM1-RDM6	Six Rug Dye Machines	150-200 lb/hr each	
D1-D5	Five Dryers (3 gas, 2 steam)	200 lb/hr each	
SDM1-SDM3	Three Sample Rug Dye Machines	4-5 lb/hr each	

Equipment to be operated (continued)			
Reference No.	Equipment Description	Rated Capacity	Federal Requirements
T1	Fixed roof fuel oil storage tank	1,000,000 gallons	NSPS Ka
T2	Storage tank for heat transfer fluid	10,000 gallons	
T3 - T9	Seven fuel oil storage tanks	10,000 gallons each	
T10	Storage tank for heat transfer fluid	2000 gallons	
T11	Fuel oil storage tank	1000 gallons	
T12	Emergency use tank	4000 gallons	
T13 - T23	Eleven tanks for material reprocess	< 1000 gallons each	
T24	Hydrogen Peroxide Storage Tank (35%)	4000 gallons	
T25	Caustic Soda Storage Tank (25%-50%)	4000 gallons	
GH1	POP area gas heater	1.0625 MMBTU/hr	
GH2	Water plant gas heater	200,000 BTU/hr	
PS1 & PS2	Two propane storage tanks	1000 gallons each	
PS3	One propane storage tank	500 gallons	
PS5	One propane storage tank	325 gallons	
PS6 & PS7	Two propane storage tanks	1000 gallons each	

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.

(9 VAC 5-80-850 F 3)

Dyeing, Heat Setting, and Other Carpet Production Operations

2. **Emission Controls** – Volatile organic compound (VOC) emissions from the dyeing and heat setting operations shall be controlled by the use of low VOC dyes and low volatility yarn finishes. The dyeing and heat setting operations shall be provided with adequate access for inspection.
(9 VAC 5-80-850)
3. **Processing** – The dyeing operation shall process no more than 30,000,000 pounds of yarn per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-850)
4. **Processing** – The stand alone heat setters shall process no more than 8,000,000 pounds of yarn per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-850)
5. **Emission Factors** - The permittee will develop dyeline and heat setter VOC emission factors and Hazardous Air Pollutant (HAP) emission factors for each type of fiber processed; each type of dye used; each type of finish oil applied; each type of cleaner used; and each type of treatment (such as wetting agents) used, to be utilized in the emission estimates required in condition 47. The emission factors developed shall be acceptable to VDEQ. The documentation for the development of these factors shall be kept on file for at least five years after the discontinuation of a particular fiber, dye, or oil and be available to agency representatives on request.
(9 VAC 5-50-260 and 9 VAC 5-50-50)

6. **Emission Limits** - Emissions from the operation of the dyeing and heat setting equipment shall not exceed the limits specified below:

Volatile Organic Compounds	65.8 lbs/hr	93.4 tons/yr
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(9 VAC 5-80-850)

7. **Visible Emission Limit** - Visible emissions from dyeing operations and stand alone heat setters shall not exceed twenty percent (20%) opacity, except during one six-minute period in any one hour in which visible emissions shall not exceed thirty percent (30%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-40-80 and 9 VAC 5-50-80)

Boiler Operations

8. **Fuel** - The approved fuel for the Carotek Therminol Heater is distillate oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)

9. **Fuel Throughput** - The Carotek Therminol Heater shall consume no more than 1,015,650 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-850)

10. **Emission Limits** - Emissions from the operation of the Carotek Therminol Heater shall not exceed the limits specified below:

Particulate Matter	0.38 lbs/hr	1.84 tons/yr
PM-10	0.34 lbs/hr	1.66 tons/yr
Sulfur Dioxide	9.44 lbs/hr	41.34 tons/yr
Nitrogen Oxides(as NO ₂)	2.55 lbs/hr	11.17 tons/yr
Carbon Monoxide	0.64 lbs/hr	2.79 tons/yr
Volatile Organic Compounds	0.03 lbs/hr	0.11 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number 9.

(9 VAC 5-50-260)

11. **Visible Emission Limit** - Visible emissions from the Carotek Therminol Heater shall not exceed 10 percent opacity, except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850, 9 VAC 5-50-260, and 9 VAC 5-50-410)

12. **Monitoring Devices** – The Carotek Therminol Heater shall be equipped with a device to measure the fuel flow rate and record the fuel consumed on a monthly basis. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the Therminol Heater is operating.
(9 VAC 5-80-850, 9 VAC 5-50-20 C, 9 VAC 5-50-410, and 9 VAC 5-50-260)
13. **Emission Controls** – Particulate emissions from the English boiler shall be controlled by two multicyclone separators, in series. The separators shall be provided with adequate access for inspection and shall be in operation when the English boiler is operating.
(9 VAC 5-80-850 and 9 VAC 5-50-260)
14. **Emission Controls** – Particulate emissions from the English Boiler wood delivery and storage operation shall be controlled by enclosure of the components of the wood storage system, except the hopper used for truck unloading.
(9 VAC 5-80-850 and 9 VAC 5-50-260)
15. **Emission Controls** – Particulate emissions from the English Boiler wood delivery and storage operation shall be controlled by maintaining a minimum moisture content of 20% in the wood fuel.
(9 VAC 5-80-850 and 9 VAC 5-50-260)
16. **Emission Controls** – Particulate emissions from English Boiler ash handling shall be controlled by storage of collected ash either in an enclosed area or in covered containers in outside areas.
(9 VAC 5-80-850 and 9 VAC 5-50-260)
17. **Emission Controls** – Carbon monoxide and nitrogen oxides emissions from the English boiler shall be controlled by proper operation and maintenance of the boiler.
(9 VAC 5-80-850 and 9 VAC 5-50-260)
18. **Monitoring** – An annual inspection of all internal and external components of the English Boiler multicyclone components shall be conducted by the permittee to insure structural integrity. The cyclone separators shall be provided with adequate access for inspection and shall be in operation when the English boiler is operating.
(9 VAC 5-80-850 and 9 VAC 5-50-260)
19. **Monitoring** – The English Boiler shall be equipped with a wood weight measurement system to measure the fuel flow rate and record the fuel consumed on a monthly basis. The wood weight measurement system shall be calibrated monthly to confirm proper measurement of the fuel delivered to the English boiler.
(9 VAC 5-80-850)
20. **Monitoring** – The wood moisture content shall be sampled quarterly at a minimum, and monthly during periods of abnormally high precipitation.
(9 VAC 5-80-850)

21. **Particulate Disposal** – The disposal of collected particulate matter from the English Boiler shall be performed in a manner which minimizes the introduction of air contaminants to the ambient air.
(9 VAC 5-80-850 and 9 VAC 5-170-160)
22. **Fuel** - The approved fuels for the English boiler are wood and/or bark. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)
23. **Fuel Throughput** - The English boiler shall consume no more than 19,500 tons of wood, per year, calculated monthly as the sum of each consecutive 12 month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)

24. **Fuel** - The wood shall meet the specifications below:

WOOD/BARK excluding any wood which contains chemical treatments or has affixed thereto paint and/or finishing materials or paper or plastic laminates:

Heat content minimum: 4,000 Btu/lb

Moisture content minimum: 20.0 %

Moisture content maximum: 52.5 %

(9 VAC 5-80-850)

25. **Emission Limits** - Emissions from the operation of the English boiler shall not exceed the limits specified below:

Particulate Matter (PM)	0.3 lbs/MMBTU	5.35 lbs/hr	23.4 tons/yr
PM-10	0.3 lbs/MMBTU	5.35 lbs/hr	23.4 tons/yr
Sulfur Dioxide		0.49 lbs/hr	2.1 tons/yr
Nitrogen Oxides (as NO ₂)		4.32 lbs/hr	18.9 tons/yr
Carbon Monoxide		11.77 lbs/hr	51.6 tons/yr
Volatile Organic Compounds		0.28 lbs/hr	1.2 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number 23.

(9 VAC 5-50-260 and 9 VAC 5-50-180)

26. **Visible Emission Limit** - Visible emissions from the English boiler shall not exceed twenty percent (20%) opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty percent (30%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850, 9 VAC 5-50-260, 9 VAC 5-50-80, and 9 VAC 5-50-410)

27. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the NSPS equipment described in Condition 1 (Carotek Therminol Heater and English Boiler) shall be operated in compliance with the requirements of 40 CFR 60 Subpart Dc. (9 VAC 5-80-850, 9 VAC 5-50-400, and 9 VAC 5-50-410)
28. **Testing/Monitoring Ports** - The Carotek Therminol Heater and the English Boiler shall be installed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing stack or duct that is free from cyclonic flow. Test ports shall be provided when requested in accordance with the applicable performance specification (reference 40 CFR Part 60, Appendix B. (9 VAC 5-50-30 F)
29. **Emission Unit Replacement** –Replacement of the Carotek Therminol Heater or the English Boiler with a different unit may require a permit. Replacement of any boiler other than the Carotek Therminol Heater or the English Boiler will require a permit. (9 VAC 5-80-1180)
30. **Fuel** - The approved fuels for the Eclipse Therminol Heater, and Cleaver Brooks boilers are distillate oil and No. 5 residual oil. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials, ASTM "Standard Specification for Fuel Oils". No. 5 residual oil is defined as fuel oil that meets the specifications for fuel oil number 5 under the American Society for Testing and Materials, ASTM "Standard Specification for Fuel Oils". A change in the fuel may require a permit to modify and operate. (9 VAC 5-170-160)
31. **Fuel Throughput** - The liquid fuel boilers and Therminol heaters, (boilers other than the English Boiler) shall consume no more than a total of 2,000,000 gallons of fuel oil per year of all fuels, and the consumption of No. 5 residual oil shall be no more than 308,000 gallons per year, calculated monthly as the sum of each consecutive 12 month period. (9 VAC 5-80-850)
32. **Fuel Sulfur Content and Certification** – The maximum sulfur content of the distillate oil and residual oil to be burned by the boilers shall not exceed 0.5 percent by weight and 1.5 percent by weight, respectively, per shipment. The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil or residual oil. Each fuel supplier certification shall include the following:
- a. The name of the fuel supplier;
 - b. The date on which the distillate oil or residual oil was received;
 - c. The volume of distillate oil or residual oil delivered in the shipment;
 - d. A statement that the distillate oil or residual oil complies with the American Society for Testing and Materials specifications for numbers 1, 2, or 5 fuel oil (ASTM D396),
 - e. The sulfur content of the distillate oil or residual oil.
- Items d and e may be satisfied by a statement from each fuel supplier that every shipment from that supplier will meet minimum specifications for distillate and residual oils. (9 VAC 5-50-410, 9 VAC 5-80-850 and 9 VAC 5-80-900)

33. **Emission Limits** - Emissions from the operation of the older boilers when burning residual oil shall not exceed the limits specified below:

	All Boilers	Eclipse Heater	Cleaver Brooks (B4)	Cleaver Brooks (B5)
Particulate	0.38 lb/MMBTU	1.0 lb/hr	0.8 lb/hr	0.9 lb/hr
PM-10	0.38 lb/MMBTU	0.9 lb/hr	0.7 lb/hr	0.8 lb/hr
Sulfur Dioxide	--	29.8 lb/hr	23.9 lb/hr	27.3 lb/hr
Nitrogen Oxides	--	6.9 lb/hr	5.6 lb/hr	6.3 lb/hr
Carbon Monoxide	--	0.7 lb/hr	0.6 lb/hr	0.6 lb/hr
Volatile Organics	--	0.04 lb/hr	0.04 lb/hr	0.04 lb/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number 31.

(9 VAC 5-80-850)

34. **Emission Limits** - Emissions from the operation of the older boilers when burning distillate oil shall not exceed the limits specified below:

	All Boilers	Eclipse Heater	Cleaver Brooks (B4)	Cleaver Brooks (B5)
Particulate	0.38 lb/MMBTU	0.3 lb/hr	0.2 lb/hr	0.3 lb/hr
PM-10	0.38 lb/MMBTU	0.2 lb/hr	0.1 lb/hr	0.1 lb/hr
Sulfur Dioxide	--	9.5 lb/hr	7.6 lb/hr	8.7 lb/hr
Nitrogen Oxides	--	2.7 lb/hr	2.1 lb/hr	2.4 lb/hr
Carbon Monoxide	--	0.7 lb/hr	0.6 lb/hr	0.6 lb/hr
Volatile Organics	--	0.04 lb/hr	0.03 lb/hr	0.04 lb/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition number 31.

(9 VAC 5-80-850)

35. **Emission Limits** – Combined emissions from the operation of all boilers shall not exceed the limits specified below:

Particulate Matter	29.0 tons/yr
PM-10	28.0 tons/yr
Sulfur Dioxide	98.5 tons/yr
Nitrogen Oxides (as NO ₂)	43.1 tons/yr
Carbon Monoxide	56.6 tons/yr
Volatile Organic Compounds	1.4 tons/yr

(9 VAC 5-80-850)

36. **Visible Emission Limit** - Visible emissions from the boilers other than the Carotek Therminol Heater and the English Boiler shall not exceed twenty percent (20%) opacity except during one six-minute period in any one hour in which visible emissions shall not exceed sixty percent (60%) opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-40-20 and 9 VAC 5-40-940)

37. **Operating and Training Procedures** - Boiler emissions shall be controlled by proper operation and maintenance. Boiler operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum. The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the boiler. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-170-160, 9 VAC 5-80-900, and 9 VAC 5-40-20)

Storage Tanks Operations

38. **Processing** – The storage tanks referenced T1 through T25 and any additional tanks shall not be used for the storage of any volatile organic compound with a vapor pressure in excess of 2.0 mm Hg. The storage tanks referenced T1 through T12 shall not be used for storage of any volatile organic compound other than distillate oil, residual oil, waste oil or Therminol heat transfer fluid without prior notification to the Department.
(9 VAC 5-80-850)
39. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirements, the NSPS equipment described in Condition 1 (Tank T1) shall be operated in compliance with the requirements of 40 CFR 60 Subpart Ka.
(9 VAC 5-50-400 and 9 VAC 5-50-410)

Facility Wide Requirements

40. **Plantwide Emission Limits** - Total emissions from the yarn processing and manufacturing facility shall not exceed the limits specified below:
- | | |
|----------------------------|--------------|
| Sulfur Dioxide | 99.0 tons/yr |
| Volatile Organic Compounds | 99.0 tons/yr |
- (9 VAC 5-80-850)
41. **Emission Limits** - Hazardous air pollutant (HAP) emissions, as defined by Section 112(b) of the Clean Air Act, from the yarn processing and manufacturing facility shall not exceed 9.5 tons per year of any individual HAP or 24.5 tons per year of any combination, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-170-160 and 9 VAC 5-60-100)
42. **Emission Unit Replacement or Addition** – Individual emission units in the dyeing and heat setting process or the yarn extrusion process may be added or replaced in those operations without modification of this permit so long as the facility complies with all control requirements and emission limits stated herein. Storage tanks with capacity of 10,000 gallons or less may be added or replaced so long as the restrictions of this permit apply to the additional or replacement tanks. The permittee shall notify the agency of such addition or replacement and include a revised listing as described in Condition 1 of this permit when such replacement or addition occurs. New yarns, dyes, finish oils, and cleaners may be added so long as emissions factor calculations requirements in Condition 5 are complied with.
(9 VAC 5-80-1180)
43. **Fugitive Dust** – Fugitive dust and controls shall include the following, or equivalent, as approved by DEQ:
- Prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
 - Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.
- (9 VAC 5-50-90 and 9 VAC 5- 80-1180)
44. **VOC Work Practice Standards** – At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9 VAC 5-50-20 F and 9 VAC 5-80-850)

CONTINUING COMPLIANCE

45. **Stack Tests** - Upon request by the DEQ, the permittee shall conduct performance tests for sulfur dioxide, nitrogen oxides, particulate matter, PM-10, carbon monoxide, and/or volatile organic compounds from any boiler or liquid phase heater to demonstrate compliance with the emission limits contained in this permit. The details of the tests shall be arranged with the Director, West Central Regional Office.
(9 VAC 5-50-30 G)
46. **Visible Emissions Evaluation** - Upon request by the DEQ, the permittee shall conduct visible emission evaluations from the any regulated emission unit to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Director, West Central Regional Office.
(9 VAC 5-50-30 G)

RECORDKEEPING AND REPORTING

47. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Air Compliance Manager, West Central Regional Office. These records shall include, but are not limited to:
- a. A monthly and annual material balance including the throughput of each type of fiber, the consumption of each type of dye, cleaner, and finish oil. This material balance shall also include estimates of the emissions of VOCs, glycol ethers, 1,2-butylene oxide, cumene, diethanolamine, 1,4-dioxane, ethylene glycol, formaldehyde, naphthalene, 1,1,1-trichloroethane, and xylene from the dyeing and heat setting operations. Annual throughput and emissions shall be calculated monthly as the sum of each consecutive 12 month period.
 - b. A monthly and annual estimate of Hazardous Air Pollutant emissions from all facility sources producing more than five pounds per month of any HAP. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.
 - c. Annual consumption of distillate oil and No. 5 residual oil, calculated monthly as the sum of each consecutive 12 month period.
 - d. Annual hours of operation of the Carotek Therminol Heater calculated monthly as the sum of each consecutive 12 month period.
 - e. Monthly, and annual consumption of distillate oil by the Carotek Therminol Heater, or alternate records as approved in writing by EPA, Region III. Annual throughput shall be calculated monthly as the sum of each consecutive 12 month period.
 - f. Monthly emissions calculations for sulfur dioxide, nitrogen oxides, particulate matter, PM-10, carbon monoxide, and volatile organic compounds from the Carotek Therminol Heater using calculation methods approved by the Director, West Central Regional Office to verify compliance with the emissions limitations in Condition 10.
 - g. Monthly, and annual throughput of wood and bark. Annual throughput shall be calculated monthly as the sum of each consecutive 12 month period.

- h. Record of all shipments of wood fuel received (date, supplier and quantity).
- i. Calibrations of the wood fuel measurement system.
- j. Wood fuel moisture sampling results.
- k. Annual inspection reports for the multi-clone separators.
- l. Monthly emission estimates for particulate matter, PM-10, sulfur dioxide, nitrogen oxides, carbon monoxide, and volatile organic compounds from the English boiler, using calculation methods approved by VDEQ to verify compliance with the emissions limitations in Condition 25.
- m. Monthly emissions calculations for sulfur dioxide, nitrogen oxides, particulate matter, PM-10, carbon monoxide, and volatile organic compounds from the combined emissions of the boilers and liquid phase heaters using calculation methods approved by the Director, West Central Regional Office to verify compliance with the emissions limitations in Condition 35.
- n. A monthly and annual estimate of sulfur dioxide, nitrogen oxides, particulate matter, PM-10, carbon monoxide, and volatile organic compounds emissions from all facility sources. Annual emissions shall be calculated monthly as the sum of each consecutive 12 month period.
- o. All fuel supplier certifications.
- p. Results of all stack tests, visible emission evaluations and performance evaluations.
- q. Material Safety Data Sheets (MSDS) or other vendor information showing VOC content, HAP content, water content, and solids content for each type of dye, cleaner, and finish oil used.
- r. Scheduled and unscheduled maintenance, and operator training for the Carotek Therminol Heater and English Boiler.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-40-50, 9 VAC 5-50-50, 9 VAC 5-50-410, and 9 VAC 5-80-900)

48. **Semi-Annual Reports** - The permittee shall submit fuel quality reports to the Director, West Central Regional Office and to USEPA Region III within 30 days after the end of each semi-annual period (ending each December 31 and June 30 at the time of issuance of this permit) at the addresses listed below. If no shipments of distillate oil were received during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no oil was received during the semi-annual period. If distillate oil was received during the semi-annual period, the reports shall include:
- a. Dates included in the semi-annual period,
 - b. A copy of all fuel supplier certifications for all shipments of distillate oil received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition 9 for each shipment of distillate oil, and
 - c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil burned or received at the facility.

The NSPS reports are to be sent to:

USEPA Region III
Air Protection Division (3AP00)
Attn: 40 CFR 60 Subpart Dc Coordinator
1650 Arch Street
Philadelphia, PA 19103

VADEQ
Air Quality Manager
West Central Regional Office
3019 Peters Creek Road
Roanoke, VA 2401

(9 VAC 5-170-160 and 9 VAC 5-50-50)

49. Reports for Facility or Control Equipment Malfunction – Within 30 days of a failure or malfunction that is expected to exist for 30 days or more, and semi-monthly thereafter until the failure or malfunction is corrected, the permittee shall furnish written reports to the Air Compliance Manager, West Central Regional Office containing the following:

- a. Identification of the specific facility that is affected as well as its location and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of air pollutant emissions likely to occur during the breakdown period;
- d. Measures taken to reduce the emissions to the lowest amount practicable during the breakdown period;
- e. A statement as to why the owner was unable to obtain parts or perform repairs that which would allow compliance with the provisions of these regulations within 30 days of the malfunction or failure;
- f. An estimate, with reasons given, of the duration of the shortage of repairs or repair parts which would allow compliance with the provisions of these regulations; and
- g. Any other pertinent information as may be requested by the board.

(9 VAC 5-20-180D, 9 VAC 5-40-50, 9 VAC 5-50-50, and 9 VAC 5-80-850)

NOTIFICATIONS

50. Notification for Control Equipment Maintenance - The permittee shall furnish notification to the Air Compliance Manager, West Central Regional Office of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour, at least 24 hours prior to the shutdown. The notification shall include, but is not limited to, the following information:

- a. Identification of the air pollution control equipment to be taken out of service, as well as its location, and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period; and

- d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-20-180 B and 9 VAC 5-80-850)

- 51. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Air Compliance Manager, West Central Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but no later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Air Compliance Manager, West Central Regional Office.

(9 VAC 5-20-180 C, 9 VAC 5-40-50 and 9 VAC 5-80-850)

GENERAL CONDITIONS

- 52. **Permit Suspension/Revocation** - This permit may be revoked if the permittee:

- a. Knowingly makes material misstatements in the permit application or any amendments to it;
- b. Fails to comply with the terms or conditions of this permit;
- c. Fails to comply with any emission standards applicable to a permitted emissions unit;
- d. Causes emissions from this facility which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard;
- e. Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time that an application for this permit is submitted;
- f. Fails to comply with the applicable provisions of Articles 6, 8 and 9 of 9 VAC 5 Chapter 80.

(9 VAC 5-80-1010)

- 53. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
- c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130)

54. **Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown, soot blowing, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the English boiler and associated fuel handling equipment:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-40-20 E, 9 VAC 5-50-20 E and 9 VAC 5-80-850)

55. **Record of Malfunctions** – The permittee shall maintain records of the occurrence and duration of any bypass, malfunction, shutdown or failure of the facility or its associated air pollution control equipment that results in excess emissions for more than one hour. Records shall include the date, time, duration, description (emission unit, pollutant affected, cause), corrective action, preventive measures taken and name of person generating the record.

(9 VAC 5-20-180 J)

56. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

(9 VAC 5-20-180 I and 9 VAC 5-80-850)

57. **Change of Ownership** - In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Regional Director, West Central Regional Office of the change of ownership within 30 days of the transfer.

(9 VAC 5-80-940)

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58. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-860 D)